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PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Keith L. Black

Serial No.: 09/615,854

Filed: July 14, 2000

For: Method for Using Potassium Channel Activation
for Delivering A Medicant to An Abnormal Brain
Brain Region and/or A Malignant Tumor

Art Unit: 1636

INFORMATION DISCLOSURE STATEMENT

Mail Stop DD
Commissioner for Patents
P.O. Box 1450
Arlington, VA 22313-1450

February 17, 2004

Sir:

Pursuant to the duty of disclosure under 37 CFR §§ 1.56, 1.97 and 1.98, Applicants cite the publications listed on the accompanying PTO-1449. Copies of all listed references are enclosed. The citation of this information does not constitute an admission of priority or that any cited item is available as a reference, or a waiver of any right the applicant may have under the applicable statutes, Rules of Practice in patent cases, or otherwise. Applicants calls the Examiner's attention to the fact that a Request for Continued Examination (RCE) was filed in this case on January 20, 2004 under 37 C.F.R §1 114.

Applicant has also enclosed the required fee of \$180.00 as specified under 37 CFR §1.17(p). If the Examiner determines an additional fee is required, the Commissioner is authorized to charge any requisite fees associated with this paper to Deposit Account No. 11-0980.

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Respectfully submitted,

Rebecca Kaufman
Reg. No. 44,819

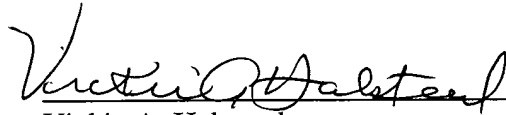
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**INFORMATION DISCLOSURE
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Application Number	09/615,854
Filing Date	July 14, 2000
First Named Inventor	Keith L. Black
Group Art Unit	1636
Examiner Name	Qian, C.X.
Attorney Docket Number	BBB

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U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	AA	5,518,499		Agar	05-21-1996	
	AB	5,767,160		Kaesemeyer	06-16-2002	
	AC	6,417,207		Garvey et al.	07-09-2002	
	AD	20020143188		Garvey et al.	10-03-2002	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS


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	AE	ABDUL, M. and Hoosein, N.M., <i>Expression and activity of potassium ion channels in human prostate cancer</i> , <u>Cancer Letters</u> 186:99-106 (2002).	
	AF	ABDUL, M., and Hoosein, N.M., <i>Voltage-gated potassium channel ions in human colon cancer</i> , <u>Oncology Rep.</u> 9:961-964 (2002).	
	AG	ABDUL, M. et al., <i>Activity of potassium channel-blockers in breast cancer</i> , <u>Anticancer Research</u> , 23(4):3347-51 (2003).	
	AH	ASOTRA, Kamlesh et al., <i>Measurement of Blood-Brain and Blood-Tumor Barrier permeabilities with [¹⁴C]-Labeled Tracers</i> , <u>Methods in Molecular Medicine</u> , Vol. 89: The Blood-Brain Barrier: Biology and Research Protocols, 177-190.	
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	AJ	BARNA, M., et al., <i>Activation of type III nitric oxide synthase in astrocytes following a neurotropic viral infection</i> , <u>Virology</u> , 223: 331-343 (1996).	
	AK	BARTUS, Raymond T. et al., <i>Use of Cereport™ (RMP-7) to Increase Delivery of Carboplatin to Gliomas: Insight and Parameters for Intracarotid Infusion Via a Single-Lumen Cannula</i> , <u>Drug Delivery</u> , 6:15-21 (1999).	

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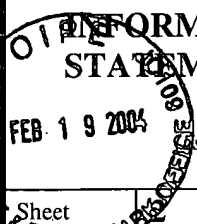
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use as many sheets as necessary)		Application Number	09/615,854
		Filing Date	July 14, 2000
		First Named Inventor	Keith L. Black
		Group Art Unit	1636
		Examiner Name	Qian, C.X.
		Attorney Docket Number	BBB
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	BA	BLACK, Keith L., <i>Biochemical opening of the blood-brain barrier</i> , <u>Advance Drug Delivery Reviews</u> , 15:37-52 (1995).	
	BB	BLACK, Keith L., <i>Imaging and Drug Delivery to Tumor-infiltrated Brain</i> , Clinical Neurosurgery, Chapter 30:563-572.	
	BC	BLACK, Keith L. et al., <i>Increased opening of blood-tumour barrier by leukotriene C₄ is dependent on size of molecules</i> , <u>Neurological Research</u> , 14: 402-404, (1992).	
	BD	BLACK, Keith L. et al., <i>Intracarotid infusion of RMP-7, a bradykinin analog, and transport of gallium⁶⁸ ethylenediamine tetraacetic acid inot humon gliomas</i> , <u>J. Neurosurg.</u> , 86:603-609 (1997).	
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	BF	BLACK, Keith et al., <i>Leukotrienes Increase Blood-Brain Barrier permeability Following Intraparenchymal Injections in Rats</i> , <u>Annals of Neurology</u> , 18:3 349-351 (1985).	
	BG	BLACK, Keith L., <i>Selective Opening of Blood-Brain Barrier for Drug Delivery to Brain Tumors</i> , <u>Perspectives in Neurological Surgery</u> , 4:1 97-104 (1993).	
	BH	BOJE, K.M., <i>Inhibition of nitric oxide synthase attenuates blood-brain barrier disruption during experimental meningitis</i> , <u>Brain Research</u> , 720:75-83 (1996).	
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	BK	CHANDRAN, S., et al., <i>Nitric oxide: concepts, current perspectives and future therapeutic implications</i> , <u>Indian Journal of Pharmacology</u> , 30:351-366 (1998).	
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	BM	CHIO, Chung-Ching et al., <i>Selective blood-tumor barrier disruption by leukotrienes</i> , <u>J. Neurosurg.</u> , 77:407-410 (1992).	
	BN	CLOUGHESY, T.F., et al., <i>Pharmacological blood-brain barrier modification for selective drug delivery</i> , <u>Journal of Neuro-Oncology</u> , 26:125-132 (1995).	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT FEB 19 2004 (Use as many sheets as necessary)		Application Number	09/615,854
		Filing Date	July 14, 2000
		First Named Inventor	Keith L. Black
		Group Art Unit	1636
		Examiner Name	Qian, C.X.
		Attorney Docket Number	BBB
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Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	CA	CLOUGHESY, Timothy F. et al., <i>Intra-arterial carboplatin chemotherapy for brain tumors: A dose escalation study based on cerebral blood flow</i> , <u>Journal of Neuro-Oncology</u> , 35:121-131 (1997).	
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	CF	HURST, R.D., et al., <i>Nitric oxide-induced perturbations in a cell culture model of the blood-brain barrier</i> , <u>Journal of Cellular Physiology</u> , 167:89-94 (1996).	
	CG	INAMURA, T., et al., <i>Intracarotid histamine infusion increases blood tumour permeability in RG2 glioma</i> , <u>Neurological Research</u> , 16:125-128 (1994).	
	CH	INAMURA, T., et al., <i>Intracarotid infusion of RMP-7, a bradykinin analog: a method for selective drug delivery to brain tumors</i> , <u>J Neurosurg</u> , 81:752-758 (1994).	
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	CL	LIU, Yunhui et al., <i>Correlation between bradykinin-induced blood-tumor barrier permeability and B2 receptor expression in experimental brain tumors</i> , <u>Neurological Research</u> , 23:379-387 (2001).	
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	DA	MATSUKADO, Koichiro, et al., <i>Enhanced Tumor Uptake of Carnoplatin and Survival in Glioma-bearing Rats by Intracarotid Infusion of Bradykinin Analog, RMP-7</i> , <u>Neurosurgery</u> , 39:1 125-134 (1996).	
	DB	MATSUKADO, Koichiro, et al., <i>Intracarotid low dose bradykinin infusion selectively increases tumor permeability through activation of bradykinin B2 receptors in malignant gliomas</i> , <u>Brain Research</u> , 792 10-15 (1998).	
	DC	MAYHAN, W.G., <i>Role of nitric oxide in histamine-induced increases in permeability of the blood-brain barrier</i> , <u>Brain Research</u> , 743:70-76 (1996).	
	DD	MAYHAN, W.G., et al., <i>Glutamate-induced disruption of the blood-brain barrier in rats</i> , <u>Stroke</u> , 27:965-970 (1996).	
	DE	NAKANO, S., et al., <i>Increased brain microvessel permeability after intracarotid bradykinin infusion is mediated by nitric oxide</i> , <u>Cancer Research</u> , 56:4027-4031 (1996).	
	DF	NAKANO, Shin, et al. <i>Enhanced cytokines delivery and intercellular adhesion molecule 1 (ICAM-1) expression in glioma by intracarotid infusion of bradykinin analog, RMP-7</i> , <u>Neurological Research</u> , 19: 501-508 (1997).	
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	DI	NOMURA, Tomojior, et al., <i>Intracarotid infusion of bradykinin selectively increases blood-tumor permeability in 9L and C6 brain tumors</i> , <u>Brain Research</u> , 659: 62-66 (1994).	
	DJ	PARDRIGE, W., et al., <i>Blood-brain barrier and new approaches to drug delivery</i> , <u>West J Med</u> , 156:281-286 (1992).	
	DK	RILEY, M. Gary I., et al., <i>Intra-arterial administration of carboplatin and the blood brain barrier permeabilizing agent, RMP-7: A toxicologic evaluation in swine</i> , <u>Journal of Neuro-Oncology</u> , 36: 167-178 (1998).	
	DL	SHUKLA, A., et al., <i>Nitric oxide-dependent blood-brain barrier permeability alteration in the rat brain</i> , <u>Experientia</u> , 52:136-140 (1996).	

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	EA	SUGITA, M., et al., <i>Cyclic GMP-specific phosphodiesterase inhibition and intracarotid bradykinin infusion enhances permeability in brain tumors</i> , <u>Cancer Research</u> , 58:914-920 (1998).	
	EB	SUGITA, Masoa, et al., <i>Nitric oxide and cyclic GMP attenuate sensitivity of the blood-tumor barrier permeability to bradykinin</i> , <u>Neurological Research</u> , 20: 559-563 (1998).	
	EC	TAKAYASU, M., et al., <i>Effects of calcium antagonists on intracerebral penetrating arterioles in rats</i> , <u>J Neurosurg</u> , 69:104-109 (1988).	
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	EE	WOODFORD, K.A. et al., <i>Inhibition of ATP-sensitive potassium channels causes reversible cell-cycle arrest in human breast cancer cells in tissue culture</i> , <u>J Cell Physiol.</u> 162(2):163-71 (1995).	

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